



SAS® 9.1.3 Foundation System Requirements for HP-UX® for the Itanium® Processor Family Architecture



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Overview

This document provides requirements for installing and running SAS 9.1.3 Foundation for HP-UX for the Itanium Processor Family Architecture. You must update your system to meet the minimum requirements before running SAS 9.1.3 Foundation. The major requirements listed in the document are:

- Software Requirements
- Hardware Requirements
- Space Requirements
- Specific Product Requirements
- Graphics Hardware and Software Compatibility

Software Requirements

Operating System

SAS 9.1.3 Foundation is supported on the following operating system:

- HP-UX 11i version 2, operating system release identifier B.11.23
- HP-UX 11v3, operating system release identifier B.11.31

We require that you apply the following patch prior to installing SAS 9.1.3 Foundation on HP-UX IPF, Release 11i version 2:

- PHKL_32542

Note: *The patch level listed was correct at the time this document was printed. However, patches required for HP-UX for the Itanium Processor Family Architecture are subject to unexpected change. To ensure you have the latest patch requirements, go to the Install Center Web page (<http://support.sas.com/documentation/installcenter/913/kit/index.html>) to find the most recent updates to this System Requirements document.*

SAS for HP-UX for the Itanium Processor Family requires the kernel parameter "streampipes" to be turned on. To verify if your system has "streampipes" turned on, you should perform the following command:

```
/usr/sbin/kmtune -q streampipes
```

If "streampipes" are configured properly, the following output should be produced:

Parameter	Current	Dyn	Planned	Module	Version
streampipes	1	-	1		

If the value of the "Current" column is not "1", "streampipes" are not configured correctly. To configure "streampipes", please refer to the HP-UX System's Documentation for assistance. A rebuild of the HP-UX kernel will typically be required after defining the kernel parameter "streampipes" correctly.

Note: *If your operating system level is HP-UX 11.23, please substitute the kmtune command with kctune.*

Web Browser

SAS 9.1.3 Foundation requires Netscape 7.0. The correct version of Netscape can be downloaded from the Install Center (<http://support.sas.com/thirdpartysupport>).

For SAS to be able to use your Web browser, the browser must be configured to allow pop-up windows. In addition, elements of SAS require access to the SAS Web site and third-party Web sites. Contact your sys admin to ensure that your browser is configured to access external sites.

Hardware Requirements

Machines Supported

- HP machines conforming to IA64

Distribution Media

- CD-ROM

Memory Requirements

For general SAS activities (for example, query and reporting, simple statistics, data manipulation), we recommend 96 MB per user.

More memory is needed for memory-intensive tasks such as OLAP, data mining, heavy statistical analysis, multivariate analysis, formats, and any GUI-based applications. Please see the “Specific Products Requirements” section for more details on memory requirements for specific products.

Terminals Supported

Any X Windows-based terminal or server that supports a minimum of 256 colors

Space Requirements

The following list contains space requirements in MB for all of the products available with this release of SAS 9.1.3 Foundation for HP-UX for the Itanium Processor Family Architecture. Use this information to help you determine how much free disk space you must have available before you can install SAS 9.1.3. In addition, SAS 9.1.3 Foundation requires approximately 30 MB of disk space on the /tmp partition to complete the installation.

Software Product	Required Disk Space	Additional Space for Samples/Optional Files
Base SAS Software	796.7	8.3
Credit Scoring for SAS Enterprise Miner Software	1.3	0.0
SAS/ACCESS Interface to DB2 Software	1.5	0.1
SAS/ACCESS Interface to HP Neoview Software	1.2	0.0
SAS/ACCESS to Informix Software	1.0	0.1
SAS/ACCESS Interface to Microsoft SQL Server	19.2	0.1
SAS/ACCESS Interface to Netezza Software	1.2	0.1
SAS/ACCESS Interface to ODBC Software	1.4	0.1
SAS/ACCESS Interface to Oracle Software	1.5	0.1
SAS/ACCESS Interface to PC Files Software	3.9	0.0
SAS/ACCESS Interface to R/3 Software	255.8	0.1
SAS/ACCESS Interface to SAP BW Software	2.7	0.0
SAS/ACCESS Interface to Sybase Software	1.9	0.1
SAS/ACCESS Interface to Teradata Software	2.1	0.1
SAS/AF Software	7.6	0.0
SAS Anti-Money Laundering Alert Generation Software	552.1	4.9
SAS/ASSIST Software	21.8	0.0
SAS/CONNECT Software	6.3	0.2
SAS Customer Intelligence Processes Software	3.7	0.0
SAS Data Quality Server Software	134.9	0.1
SAS e-Data ETL Server Software	19.7	0.0
SAS/EIS Software	18.2	10.5
SAS Enterprise Miner Software	134.6	38.9
SAS/ETS Software	71.2	1.1
SAS Forecast Server Interface Software	4.0	0.0
SAS/FSP Software	2.6	0.0
SAS/GENETICS Software	3.4	0.2
SAS/GIS Software	68.3	0.3
SAS/GRAPH Software	106.7	2.6
SAS High-Performance Forecasting Software	27.0	0.2
SAS/IML Software	22.2	0.7
SAS/INSIGHT Software	28.0	0.4
SAS Integration Technologies Software	10.2	0.4
SAS/IntrNet Software	3.6	1.1
SAS Inventory Optimization Software	2.9	0.1
SAS IT Management Adapter for SAP Software	1.5	0.1
SAS IT Management Solutions Core Components MVA Data Software	5.9	0.0
SAS IT Resource Management Software	207.3	0.0
SAS IT Service Level Management Software	6.9	0.0
SAS/LAB Software	13.5	0.0
SAS Marketing Automation Processes Software	0.7	0.0

Software Product	Required Disk Space	Additional Space for Samples/Optional Files
SAS Marketing Optimization Software	4.6	91.7
SAS OLAP Server Software	5.9	0.0
SAS OpRisk VaR Server Software	2.3	0.0
SAS/OR Software	80.8	2.2
SAS/QC Software	51.0	3.5
SAS Risk Dimensions Software	99.2	500.0
SAS/SECURE Software	4.2	0.0
SAS/SHARE Software	1.0	0.2
SAS Sourcing Data Quality Server Software	0.5	0.0
SAS/SPECTRAVIEW Software	4.9	14.4
SAS Spend Analysis Server Software	0.3	0.0
SAS/STAT Software	114.6	3.2
SAS/Warehouse Administrator Software	45.2	0.0
SAS Warranty Analysis Server Software	5.8	0.0
SAS Web Analytics Software	3.4	0.0

SAS/GIS Census Tract Maps

State	Required Disk Space in MB
Alabama	12.9
Alaska	10.4
Arizona	4.1
Arkansas	11.5
California	18.3
Colorado	8.1
Connecticut	2.8
Delaware	0.8
District of Columbia	0.1
Florida	15.6
Georgia	15.7
Hawaii	1.7
Idaho	8.6
Illinois	14.1
Indiana	8.3
Iowa	8.4
Kansas	9.0
Kentucky	12.8
Louisiana	17.2
Maine	8.4
Maryland	4.4
Massachusetts	5.0
Michigan	13.0
Minnesota	17.8
Mississippi	9.6
Missouri	13.3

State	Required Disk Space in MB
Montana	13.0
Nebraska	7.4
Nevada	3.3
New Hampshire	2.9
New Jersey	4.3
New Mexico	4.7
New York	15.1
North Carolina	15.7
North Dakota	9.8
Ohio	11.8
Oklahoma	9.6
Oregon	10.0
Pennsylvania	14.5
Rhode Island	0.9
South Carolina	9.8
South Dakota	8.7
Tennessee	14.3
Texas	28.6
Utah	5.3
Vermont	2.1
Virginia	12.4
Washington	10.0
West Virginia	6.9
Wisconsin	13.6
Wyoming	7.2
Total for all entries	493.8

SAS/GRAPH Map Data Sets

Data Set	Required Disk Space
Countries in Africa and Middle East Maps	7.2
Countries in Asia and Pacific Maps	22.0
Countries in Europe Maps	16.2
North America Maps	5.5
Countries in Latin America and Caribbean Maps	7.0
Canada Maps	1.9
Continents Maps	25.7
World Map	25.7
Very Large US County Map, Unprojected	12.5
Large US County Map, Unprojected and Reduced	1.5
Large US Mainland County Map, Projected and Reduced	1.5
Large US State Outline Map, Unprojected	1.5
Total for all entries	128.2

DBCS Support

The following list contains space requirements in MB for SAS 9.1.3 components that offer DBCS support.

Software Product	Required Disk Space
Base SAS Software	62.1
SAS/ACCESS Interface to DB2 Software	1.4
SAS/ACCESS Interface to Microsoft SQL Server Software	1.3
SAS/ACCESS Interface to ODBC Software	1.3
SAS/ACCESS Interface to Oracle Software	0.5
SAS/ACCESS Interface to PC Files Software	2.6
SAS/ACCESS Interface to R/3 Software	0.2
SAS/ACCESS Interface to Sybase Software	1.1
SAS/AF Software	0.8
SAS/CONNECT Software	2.0
SAS/EIS Software	0.5
SAS Enterprise Miner Software	0.4
SAS/FSP Software	1.0
SAS/GRAPH Software	66.1
SAS/INSIGHT Software	11.5
SAS/LAB Software	2.8
SAS/QC Software	1.5
SASSHARE Software	0.2
SAS/STAT Software	2.3

Japanese Language

Japanese Support	Primary Encoding Required Disk Space	Additional Space for Samples/Optional Files	Secondary Encoding Required Disk Space	Additional Space for Samples/Optional Files
Base SAS Software	12.8	0.3	12.8	0.3
Credit Scoring for SAS Enterprise Miner Software	0.4	0.0	0.4	0.0
SAS Anti-Money Laundering Alert Generation Samples	0.4	0.0	0.4	0.0
SAS e-Data ETL Software	3.2	0.0	3.2	0.0
SAS Enterprise Miner Software	3.9	0.0	3.9	0.0
SAS/GRAPH Software	0.2	0.0	0.2	0.0
SAS/IntrNet Software	0.3	0.0	0.3	0.0
SAS Marketing Optimization Software	0.1	0.0	0.1	0.0
SAS OLAP Server Software	0.2	0.0	0.2	0.0
Countries in Asia and Pacific Maps	22.0	0.0	22.0	0.0

Chinese Simplified Language

Chinese Simplified Support	Required Disk Space
Base SAS Software	8.7
SAS Anti-Money Laundering Alert Generation Samples	0.4
SAS Enterprise Miner Software	0.1
SAS/GRAPH Software	0.2
SAS/IntrNet Software	0.3
SAS Marketing Optimization Software	0.1
SAS OLAP Server Software	0.2

Chinese Traditional Language

Chinese Traditional Support	Required Disk Space
Base SAS Software	3.0
SAS Anti-Money Laundering Alert Generation Samples	0.1
SAS/GRAPH Software	16.7
SAS OLAP Server Software	0.2

French Language

French Support	Required Disk Space
Base SAS Software	23.6
SAS Data Quality Server Software	0.1
SAS/EIS Software	9.7
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.2
SAS Marketing Optimization Software	0.1
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

German Language

German Support	Required Disk Space
Base SAS Software	4.8
SAS Data Quality Server Software	0.1
SAS Enterprise Miner Server Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.2
SAS Marketing Optimization Software	0.1
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

Hungarian Language

Hungarian Support	Required Disk Space
Base SAS Software	4.6
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.2
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

Italian Language

Italian Support	Required Disk Space
Base SAS Software	23.8
SAS Anti-Money Laundering Alert Generation Software	0.2
SAS Anti-Money Laundering Alert Generation Samples	1.2
SAS Data Quality Server Software	0.1
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.4
SAS High-Performance Forecasting Software	0.5
SAS Marketing Optimization Software	0.1
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.9

Korean Language

Korean Support	Required Disk Space
Base SAS Software	8.3
SAS Anti-Money Laundering Alert Generation Samples	0.1
SAS Enterprise Miner Software	0.1
SAS/GRAPH Software	0.2
SAS Marketing Optimization Software	0.1
SAS OLAP Server Software	0.2
SAS/QC Software	0.2

Russian Language

Russian Support	Required Disk Space
Base SAS Software	4.6
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.2
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

Spanish (Castilian) Language

Spanish (Castilian) Support	Required Disk Space
Base SAS Software	17.7
SAS Data Quality Server Software	0.1
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.4
SAS Marketing Optimization Software	0.1
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

Swedish Language

Swedish Support	Required Disk Space
Base SAS Software	4.6
SAS Enterprise Miner Software	0.2
SAS/ETS Software	0.7
SAS/Genetics Software	0.1
SAS/GRAPH Software	0.2
SAS/OR Software	0.6
SAS/QC Software	0.2
SAS/STAT Software	0.8

Specific Product Requirements

SAS/ACCESS Interface to DB2 Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to DB2 software

DBMS Product Required

- DB2 Universal Database, Version 8.1 Fix Pak 4 or higher (64-bit libraries), for HP IA64

SAS/ACCESS Interface to DB2 can be installed on a DB2 server or on a DB2 client node with an installation of the DB2 Run-Time Client, DB2 Application Development Client, or DB2 Administration Client.

SAS/ACCESS Interface to HP Neoview Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to HP Neoview software
- Neoview ODBC driver, release 2.2 or later

SAS/ACCESS Interface to HP Neoview requires an ODBC driver from HP. To get the driver, go to <http://software.hp.com> and click on “HP Neoview Platform” under “Our top featured products”.

SAS/ACCESS Interface to Informix Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to Informix software

DBMS Product Required

Informix CSDK 2.90 or higher (64-bit libraries). The release date for this product is scheduled in November 2004. If Informix Connect 2.90 is not available, you can install Informix Connect 2.81.FC3X2 or higher (64-bit libraries) instead and call IBM/Informix Tech Support to order the patch for Bug 166843.

SAS/ACCESS Interface to Informix uses an ODBC connection. The ODBC driver included with Informix Connect must be installed and configured prior to using the SAS/Access to Informix software.

SAS/ACCESS Interface to Informix software also requires the use of communication protocols such as TCP/IP to function properly.

SAS/ACCESS Interface to Microsoft SQL Server Software

Products Required:

- Base SAS software
- SAS/ACCESS Interface to Microsoft SQL Server software

SAS/ACCESS Interface to Netezza Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to Netezza software
- Netezza ODBC driver, release 3.1.4 or later (available for download from the Netezza Web site or through Netezza technical support; see below for more information)

SAS/ACCESS Interface to Netezza requires an ODBC driver from Netezza. To get the Netezza ODBC driver, release 3.1.4 or above, please contact Netezza technical support at (877) 810-4441 or visit the Netezza customer support Web site, <http://www.netezza.com/support/login.cfm>.

SAS/ACCESS Interface to ODBC Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to ODBC software

DBMS Products Required

- A compliant ODBC driver manager and ODBC driver (64-bit libraries)

ODBC drivers are often available from DBMS vendors and other third party ODBC driver developers. The ODBC driver you choose may require additional DBMS software in order to access the data.

You may have to edit the .odbc.ini file in your home directory with a text editor to configure data sources. Some ODBC driver vendors may allow a system administrator to maintain a centralized copy by setting an environment variable.

The ODBC drivers are ODBC API-compliant dynamic link libraries, referred to in UNIX as shared objects. You must include the full path to the dynamic link libraries in SHLIB_PATH so that the ODBC drivers can be loaded dynamically at run time.

For more information, please consult your ODBC driver vendor.

SAS/ACCESS Interface to Oracle Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to Oracle software

DBMS Products Required

SAS/ACCESS Interface to Oracle software can be installed on either a full Oracle RDBMS server node or on an Oracle client node.

The minimum required Oracle release is:

- Oracle, Release 9.2.

Note: If you are using Oracle Release 10g, you will need to download a Hot Fix in order for it to interact correctly with SAS software. Hot Fix E9oc06 and the instructions to install it are available from

http://ftp.sas.com/techsup/download/hotfix/e9_lix_sbcs.html#oc.

SAS/ACCESS Interface to PC Files Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to PC Files software

Products Required on Windows

- SAS PC Files Server

DBMS Products Required on Windows

- Microsoft Jet 4.0 Components
- Microsoft Data Access Components(MDAC), Version 2.7 or higher

SAS/ACCESS Interface to PC Files software supports access to delimited file (csv, tab), dBase file (.dbf), JMP file (.jmp), Excel file (.xls), Microsoft Access database file (.mdb) and virtually any data source through ODBC support on Windows.

However, to access Microsoft Access database file(.mdb), Microsoft Excel workbook file(.xls) or any ODBC supported data sources, SAS/ACCESS Interface to PC Files software requires the PC Files Server (pcfserver.exe) running on Windows. The PC Files Server (pcfserver.exe) component is shipped on the **SAS Client-Side Components** CDs.

SAS/ACCESS Interface to R/3 Software

Note: The graphical user interface of the SAS/ACCESS Interface to R/3 is not supported on HP-UX for the Itanium Processor Family Architecture.

Products Required

- Base SAS software
- SAS/ACCESS Interface to R/3 software

Additional functionality is obtained if the following products are installed:

- SAS/Warehouse Administrator software
- SAS/CONNECT software
- SAS/SHARE software

SAS/ACCESS Interface to R/3 software requires the use of communication protocols such as TCP/IP to function properly.

SAP R/3 Products Required

- SAP Kernel Release 4.6C or higher

The SAS RFC Server requires the SAP RFC library which is provided by SAP AG. Refer to SAP Note 413708 for the current version, download and installation instructions.

For Windows, the recommended installation method is to install the SAP GUI or the RFC SDK.

For the RFC servers on Windows, z/OS, and Linux, download the 32-bit version; for all other platforms, download the 64-bit version of the RFC library.

For the Unicode RFC server, download the Unicode RFC library and the shared libraries required by the Unicode RFC library.

SAS/ACCESS Interface to SAP BW Software

Note: *The graphical user interface of the SAS/ACCESS Interface to SAP BW is not supported on HP-UX for the Itanium Processor Family Architecture.*

Products Required

- Base SAS software
- SAS/ACCESS Interface to R/3 software
- SAS/ACCESS Interface to SAP BW software

Additional functionality is obtained if the following products are installed:

- SAS/EIS software, or
- SAS OLAP Server software

SAP BW Products Required

- SAP BW, Release 2.0B or higher

SAS/ACCESS Interface to Sybase Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to Sybase software

DBMS Products Required

The following release of Sybase Open Client software is required:

- Sybase Open Client SDK (Software Developer's Kit) Software, Release 12.5.x (64-bit libraries)

The following is recommended:

- Adaptive Server Enterprise, Release 11.x or higher

Note: *SAS/ACCESS Interface to Sybase software no longer supports access to Microsoft SQL Server data. SAS/ACCESS Interface to Sybase software uses the CTLIB API calls to access the Sybase DBMS product. These CTLIB API calls are not supported by Microsoft SQL Server; therefore, you will have to use SAS/ACCESS Interface to ODBC software with an appropriate ODBC driver to obtain access to Microsoft SQL Server data.*

Note: *Sybase ASIQ, Release 12.x is not supported; SAS/ACCESS Interface to ODBC software must be used instead.*

SAS/ACCESS Interface to Teradata Software

Products Required

- Base SAS software
- SAS/ACCESS Interface to Teradata software

DBMS Products Required

The following release of Teradata Client software is required:

- Teradata CLIV2 client libraries and utilities, TTU 8.1 for HP-UX Itanium (64-bit libraries) or higher

The following is recommended for support of Multiload from within SAS:

- Teradata CLIV2 client libraries and utilities, TTU 8.2 for HP-UX Itanium(64-bit libraries) or higher

SAS Activity-Based Management Software

SAS Activity-Based Management Data Integration and Enterprise BI Server

The following products are included in SAS Activity-Based Management Data Integration and Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Activity-Based Management Data Integration and Enterprise BI Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS OLAP Server software

Disk Space Required for SAS Activity-Based Management Data Integration and Enterprise BI Server:

SAS Activity-Based Management Data Integration and Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Activity-Based Management Data Integration and Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Activity-Based Management Metadata Server

The following products are included in SAS Activity-Based Management Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Activity-Based Management Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Activity-Based Management Metadata Server:

SAS Activity-Based Management Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Activity-Based Management Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/AF Software

Products Required for Build Mode

- Base SAS software
- SAS/AF software
- SAS/GRAFH software (to create and display some graphics objects)
- Other products may be required depending on the application

Products Required for Run Mode

- Base SAS software
- SAS/GRAFH software (to display some graphics objects)
- Other products may be required depending on the application

Printers

- For printing graphics-based objects, a color or gray scale printer is required.
- Certain non-graphic objects may require SAS/GRAFH software to print depending on the object.

SAS Anti-Money Laundering Software

The following products are included in SAS Anti-Money Laundering Alert Generation Server. Unless explicitly licensed, use of this software is limited to SAS Anti-Money Laundering Alert Generation Server.

- SAS Anti-Money Laundering Alert Generation software
- Base SAS software
- SAS/ACCESS engine of choice (SAS/ACCESS Interface to DB2, SAS/ACCESS Interface to Oracle, or SAS/ACCESS Interface to Teradata—please note that SAS Anti-Money Laundering software is considered "Pre-Production" when used with SAS/ACCESS Interface to Teradata)
- SAS/CONNECT software
- SAS Data Quality Server
- SAS Enterprise Miner software
- SAS/ETS software
- SAS/GRAFH software
- SAS Integration Technologies software
- SAS Metadata Server
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Anti-Money Laundering Alert Generation Server:

The disk space required for SAS Anti-Money Laundering Alert Generation Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Anti-Money Laundering Alert Generation Server 1.3 should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Banking Intelligence Architecture Software

SAS Banking Intelligence Architecture Data Integration Server

The following products are included in SAS Banking Intelligence Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Banking Intelligence Architecture Data Integration Server.

- Base SAS software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Banking Intelligence Architecture Data Integration Server:

The disk space required for SAS Banking Intelligence Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Banking Intelligence Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Banking Intelligence Architecture EBI Server

The following products are included in SAS Banking Intelligence Architecture EBI Server. Unless explicitly licensed, use of this software is limited to SAS Banking Intelligence Architecture EBI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Banking Intelligence Architecture EBI Server

The disk space required for SAS Banking Intelligence Architecture EBI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Banking Intelligence Architecture EBI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Banking Intelligence Architecture Metadata Server

The following products are included in SAS Banking Intelligence Architecture Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Banking Intelligence Architecture Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Banking Intelligence Architecture OLAP Server

The following products are included in SAS Banking Intelligence Architecture OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Banking Intelligence Architecture OLAP Server.

- Base SAS software
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Banking Intelligence Architecture OLAP Server:

The disk space required for SAS Banking Intelligence Architecture OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Banking Intelligence Architecture OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

Base SAS Software

External Tape Devices Supported

The TAPE device type is supported for the following tape devices:

- 4mm cartridge tapes
- 8mm cartridge tapes

Requirements for SPD Engine on HP-UX for the Itanium Processor Family

- An SMP (symmetric multiprocessing) computer with at least two CPUs; four are preferred
- At least one I/O channel per two CPUs
- Enough disk drives to have at least one mount point per CPU isolated on its own disk; two mount points per CPU are better

SAS BI Server

SAS BI Server

Products Included in SAS BI Server:

- Base SAS software
- SAS/GRAPH software
- SAS Integration Technologies software

Disk Space Required for SAS BI Server:

The disk space required for SAS BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS BI Server Metadata Server

Products Included in SAS BI Server Metadata Server:

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS BI Server Metadata Server:

The disk space required for SAS BI Server Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS BI Server Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Campaign Management Software

SAS Campaign Management Server

The following products are included in SAS Campaign Management Server. Unless explicitly licensed, use of this software is limited to SAS Campaign Management Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS Customer Intelligence Processes software
- SAS/ETS software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Campaign Management Server:

SAS Campaign Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Campaign Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Campaign Management Metadata Server

The following products are included in SAS Campaign Management Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Campaign Management Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Campaign Management Metadata Server:

SAS Campaign Management Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Campaign Management Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/CONNECT Software

TCP/IP Access Method:

Any TCP/IP package that comes with the operating system.

SAS Credit Risk Management for Banking Software

SAS Credit Risk Management for Banking Server

The following products are included in SAS Credit Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Credit Risk Management for Banking Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAFH software
- SAS/IML software
- SAS/INSIGHT software
- SAS Integration Technologies software
- SAS/IntrNet software
- SAS OLAP Server software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Credit Risk Management for Banking Server:

SAS Credit Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Credit Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Credit Risk Management Metadata Server

The following products are included in SAS Credit Risk Management Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Credit Risk Management Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Credit Risk Management Metadata Server:

SAS Credit Risk Management Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Credit Risk Management Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Credit Scoring for Banking Software

The following products are included in SAS Credit Scoring for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Credit Scoring for Banking Server.

- Base SAS software
- SAS/CONNECT software
- Credit Scoring for SAS Enterprise Miner software
- SAS/EIS software
- SAS Enterprise Miner software (installation code)
- SAS/ETS software
- SAS/FSP software
- SAS/GRAFH software
- SAS Integration Technologies software
- SAS/INSIGHT software
- SAS OLAP Server software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

The disk space required for the SAS Credit Scoring for Banking Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

SAS Credit Scoring for SAS Enterprise Miner Software

SAS Enterprise Miner software is a prerequisite for the installation of SAS Credit Scoring for SAS Enterprise Miner software.

SAS Cross-Sell and Up-Sell for Banking Software

The following products are included in SAS Cross-Sell and Up-Sell for Banking Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Cross-Sell and Up-Sell for Banking Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Cross-Sell and Up-Sell for Banking Metadata Server:

The disk space required for SAS Cross-Sell and Up-Sell for Banking Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Cross-Sell and Up-Sell for Banking Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Customer Retention for Banking Software

The following products are included in SAS Customer Retention for Banking Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Customer Retention for Banking Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Customer Retention for Banking Metadata Server:

The disk space required for SAS Customer Retention for Banking Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Customer Retention for Banking Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Customer Segmentation for Banking Software

The following products are included in SAS Customer Segmentation for Banking Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Customer Segmentation for Banking Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Customer Segmentation for Banking Metadata Server:

The disk space required for SAS Customer Segmentation for Banking Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Customer Segmentation for Banking Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Integration Server

SAS Data Integration Server

Products Included in SAS Data Integration Server:

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Data Integration Server:

The disk space required for SAS Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Integration Server Metadata Server

Products Included in SAS Data Integration Server Metadata Server:

- Base SAS software
- SAS/Connect software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required for SAS Data Integration Server Metadata Server:

The disk space required for SAS Data Integration Server Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Data Integration Server Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Quality Server Software

Memory:

The memory requirements for SAS Data Quality Server software are dependent upon the complexity of the data and the number of locales loaded from the Quality Knowledge Base at one time.

- 128 MB recommended per locale

SAS Data Surveyor for Oracle

An installation of SAS Data Surveyor for Oracle requires one of the following products as a prerequisite:

- SAS Data Integration Server
- SAS Enterprise Data Integration Server
- any solution containing SAS Data Integration Studio

SAS Data Surveyor for Oracle contains SAS/ACCESS Interface to Oracle. When determining the file space required for this product from the file size tables, use only the figure for SAS/ACCESS Interface to Oracle.

SAS Data Surveyor for PeopleSoft

An installation of SAS Data Surveyor for PeopleSoft requires one of the following products as a prerequisite:

- SAS Data Integration Server
- SAS Enterprise Data Integration Server
- any solution containing SAS Data Integration Studio

SAS Data Surveyor for PeopleSoft contains a SAS/ACCESS engine of your choice. When determining the file space required for this product engine from the file size tables, use only the figure for your chosen SAS/ACCESS.

SAS Data Surveyor for SAP

An installation of SAS Data Surveyor for SAP requires one of the following products as a prerequisite:

- SAS Data Integration Server
- SAS Enterprise Data Integration Server
- any solution containing SAS Data Integration Studio

SAS Data Surveyor for SAP contains SAS/ACCESS Interface to R/3 and SAS/ACCESS Interface to SAP BW. When determining the file space required for this product from the file size tables, use only the figures for these two SAS/ACCESS products.

SAS Data Surveyor for Siebel

An installation of SAS Data Surveyor for Siebel requires one of the following products as a prerequisite:

- SAS Data Integration Server
- SAS Enterprise Data Integration Server
- any solution containing SAS Data Integration Studio

SAS Data Surveyor for Siebel contains a SAS/ACCESS engine of your choice. When determining the file space required for this product from the file size tables, use only the figure for your chosen SAS/ACCESS engine.

SAS Digital Marketing

The following products are included in SAS Digital Marketing SAS Server. Unless explicitly licensed, use of this software is limited to SAS Digital Marketing SAS Server.

- Base SAS software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/SHARE software

Disk Space Required for SAS Digital Marketing SAS Server:

SAS Digital Marketing SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Digital Marketing SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Drug Development Software

The following products are included in SAS Drug Development SAS Server. Unless explicitly licensed, use of this software is limited to SAS Drug Development SAS Server.

- Base SAS software
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/STAT software

Disk Space Required for SAS Drug Development SAS Server:

SAS Drug Development SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Drug Development SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

Education Analytical Suite

The following products are included in Education Analytical Suite Server. Unless explicitly licensed, use of this software is limited to Education Analytical Suite Server.

- Base SAS software
- SAS/ACCESS Interface to DB2 software
- SAS/ACCESS Interface to Informix software
- SAS/ACCESS Interface to Microsoft SQL Server software
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to Oracle software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/ASSIST software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS Integration Technologies software
- SAS/LAB software
- SAS/OR software
- SAS/QC software
- SAS/SECURE software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for Education Analytical Suite Server:

The disk space required for Education Analytical Suite Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install Education Analytical Suite Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/EIS Software

Products Required for Build Mode

- Base SAS software
- SAS/AF software
- SAS/EIS software
- SAS/FSP software
- SAS/GRAPH software
- Other products may be required depending on the application

Products Required for Run Mode

- Base SAS software
- SAS/GRAPH software
- SAS/EIS software
- Other products may be required depending on the application

Memory

- 96 MB required per concurrent user
- 128 MB recommended per concurrent user

Printers

- For printing graphics-based objects, a color or gray scale printer is required.

SAS Enterprise BI Server

SAS Enterprise BI Server

Products Included in SAS Enterprise BI Server:

- Base SAS software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS OLAP Server software

Disk Space Required for SAS Enterprise BI Server

The disk space required for SAS Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise BI Server Metadata Server

Products Included in SAS Enterprise BI Server Metadata Server:

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Enterprise BI Server Metadata Server:

The disk space required for SAS Enterprise BI Server Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise BI Server Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Data Integration Server

SAS Enterprise Data Integration Server

Products Included in SAS Enterprise Data Integration Server:

- Base SAS software
- SAS/ACCESS software of choice
- A second SAS/ACCESS software of choice
- SAS/CONNECT software
- SAS Data Quality Server and a Quality Knowledge Base of choice
- SAS Integration Technologies software
- SAS/SHARE software

Disk Space Required for SAS Enterprise Data Integration Server:

The disk space required for SAS Enterprise Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Data Integration Server Metadata Server

Products Included in SAS Enterprise Data Integration Server Metadata Server:

- Base SAS software
- SAS/Connect software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required for SAS Enterprise Data Integration Server Metadata Server:

The disk space required for SAS Enterprise Data Integration Server Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Data Integration Server Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Intelligence Suite for Education

SAS Enterprise Intelligence Suite Server

The following products are included in SAS Enterprise Intelligence Suite Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Intelligence Suite Server.

- Base SAS software
- Quality Knowledge Base locale of choice
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Data Quality Server software
- SAS/ETS software

- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Enterprise Intelligence Suite Server:

The disk space required for SAS Enterprise Intelligence Suite Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Intelligence Suite Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Intelligence Suite Metadata Server

The following products are included in SAS Enterprise Intelligence Suite Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Intelligence Suite Metadata Server.

- Base SAS software
- SAS/Connect software
- SAS Metadata Server software

Disk Space Required for SAS Enterprise Intelligence Suite Metadata Server:

The disk space required for SAS Enterprise Intelligence Suite Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Intelligence Suite Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Intelligence Suite OLAP Server

The following products are included in SAS Enterprise Intelligence Suite OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Intelligence Suite OLAP Server.

- Base SAS software
- SAS/AF
- SAS/GRAPH
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Enterprise Intelligence Suite OLAP Server:

The disk space required for SAS Enterprise Intelligence Suite OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Intelligence Suite OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Management for Six Sigma Software

SAS Enterprise Management for Six Sigma Server

The following products are included in SAS Enterprise Management for Six Sigma Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Management for Six Sigma Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAFH software
- SAS Integration Technologies software
- SAS/IntrNet software
- SAS OLAP Server software
- SAS/QC software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Enterprise Management for Six Sigma Server:

SAS Enterprise Management for Six Sigma Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Management for Six Sigma Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Management for Six Sigma Metadata Server

The following products are included in SAS Enterprise Management for Six Sigma Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Management for Six Sigma Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Enterprise Management for Six Sigma Metadata Server:

SAS Enterprise Management for Six Sigma Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Enterprise Management for Six Sigma Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Miner 4.3 and 5.3

Base SAS software and SAS/STAT software are prerequisites for the installation of SAS Enterprise Miner Server.

The following products are included in SAS Enterprise Miner Server 4.3 and 5.3. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner Server.

- SAS Enterprise Miner software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS Integration Technologies software

Memory Required for SAS Enterprise Miner Server 4.3 and 5.3:

- 1 GB required per concurrent user

Disk Space Required for SAS Enterprise Miner Server 4.3 and 5.3:

The disk space required for the SAS Enterprise Miner Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install the SAS Enterprise Miner Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Forecast Server

SAS Forecast Server

Products Included in SAS Forecast Server:

- SAS Forecast Server Batch Interface
- Base SAS software
- SAS/ETS software
- SAS/GRAPH software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS/OR software (unless explicitly licensed, use of SAS/OR is limited to SAS Forecast Server)

Disk Space Required for SAS Forecast Server

The disk space required for SAS Forecast Server is the combined total space requirements for the SAS software products listed above. See the **Space Requirements** table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Forecast Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Forecast Server Metadata Server

Products Included in SAS Forecast Server Metadata Server:

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Forecast Server Metadata Server:

The disk space required for SAS Forecast Server Metadata Server is the combined total space requirements for the SAS software products listed above. See the **Space Requirements** table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Forecast Server Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/Genetics Software

Products Required:

- Base SAS software
- SAS/Genetics software
- SAS/GRAPH software

SAS/GIS Software

Products Required for Build Mode

- Base SAS software
- SAS/AF software (recommended)
- SAS/GIS software
- SAS/GRAPH software
- Other products may be required depending on the application

Products Required for Run Mode

- Base SAS software
- SAS/FSP software (recommended)
- SAS/GIS software
- SAS/GRAPH software
- Other products may be required depending on the application

Printers

- A color or gray scale printer is required. The list of possible printers can be found in the “Graphics Hardware and Software Compatibility” section of this document.

SAS Grid Manager Software

SAS Grid Manager Control Server

Base SAS software and SAS/CONNECT software are prerequisites for the installation of SAS Grid Manager Control Server.

SAS Grid Manager Metadata Server

The following products are included in SAS Grid Manager Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Grid Manager Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Grid Manager Metadata Server:

SAS Grid Manager Metadata Server is the combined total space requirements for the SAS software products listed above. See the **Space Requirements** table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Grid Manager Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Grid Manager Node

Base SAS software and SAS/CONNECT software are prerequisites for the installation of SAS Grid Manager Node.

SAS GridClient

Base SAS software and SAS/CONNECT software are prerequisites for the installation of SAS GridClient.

SAS High-Performance Forecasting Software

If you are upgrading to a new version SAS High-Performance Forecasting, please consult the **Important Information** document regarding found in your SAS Installation Kit.

Base SAS software is a prerequisite for the installation of SAS High-Performance Forecasting.

Products Included in SAS High-Performance Forecasting:

- SAS High-Performance Forecasting software
- SAS/OR software (unless explicitly licensed, use of SAS/OR is limited to SAS High-Performance Forecasting)

Disk Space Required for SAS High-Performance Forecasting:

The disk space required for SAS High-Performance Forecasting is the combined total space requirements for the SAS software products listed above. See the **Space Requirements** table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS High-Performance Forecasting should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Information Delivery Portal Software

Base SAS software is a prerequisite for the installation of SAS Information Delivery Portal Server.

The following products are included in SAS Information Delivery Portal Server. Unless explicitly licensed, use of this software is limited to SAS Information Delivery Portal Server.

- SAS Integration Technologies software

Disk Space Required for SAS Information Delivery Portal Server:

SAS Information Delivery Portal Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Information Delivery Portal Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Intelligence Architecture Software**SAS Insurance Intelligence Architecture Data Integration Server**

The following products are included in SAS Insurance Intelligence Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Intelligence Architecture Data Integration Server.

- Base SAS software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Insurance Intelligence Architecture Data Integration Server:

The disk space required for SAS Insurance Intelligence Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Insurance Intelligence Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Intelligence Architecture EBI Server

The following products are included in SAS Insurance Intelligence Architecture EBI Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Intelligence Architecture EBI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Insurance Intelligence Architecture EBI Server

The disk space required for SAS Insurance Intelligence Architecture EBI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Insurance Intelligence Architecture EBI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Intelligence Architecture Metadata Server

The following products are included in SAS Insurance Intelligence Architecture Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Intelligence Architecture Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Intelligence Architecture OLAP Server

The following products are included in SAS Insurance Intelligence Architecture OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Intelligence Architecture OLAP Server.

- Base SAS software
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Insurance Intelligence Architecture OLAP Server:

The disk space required for SAS Insurance Intelligence Architecture OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Insurance Intelligence Architecture OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Intelligence Storage

SAS Intelligence Storage Server

Products Included in SAS Intelligence Storage Server:

- Base SAS software
- SAS/AF software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS OLAP Server

Disk Space Required for SAS Intelligence Storage Server:

The disk space required for SAS Intelligence Storage Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Intelligence Storage Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Intelligence Storage Metadata Server

Products Included in SAS Intelligence Storage Metadata Server:

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Intelligence Storage Metadata Server:

The disk space required for SAS Intelligence Storage Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Intelligence Storage Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/IntrNet Software

SAS/IntrNet software consists of several components that may be installed independently. SAS/IntrNet Server software is installed on an existing SAS system and is included on SAS 9.1.3 media. Other SAS/IntrNet software components may be installed from the **SAS Client-Side Components** CD.

CGI Tools and Applications

Application Dispatcher

Requires Base SAS software and SAS/IntrNet Server software. The Application Broker component of the Application Dispatcher must be installed on a Web server.

htmSQL

Requires Base SAS software, SAS/SHARE software, and a SAS/IntrNet software license (SETINIT). The htmSQL component must be installed on a Web server.

MDDB Report Viewer Application

Requires Base SAS software; SAS/GRAPH software; SAS/IntrNet software; and SAS/EIS software or SAS OLAP Server software. The Application Dispatcher component must be installed and configured.

Xplore Sample Web Application

Requires Base SAS software and SAS/IntrNet Server software. The Application Dispatcher component must be installed and configured.

Java Tools and Applications

SAS/CONNECT Driver for Java

Requires Base SAS software, SAS/CONNECT software, and SAS/IntrNet Server software. SAS/SHARE software must also be installed if data services are used. The Java Tools package must be installed on a Web server or client system.

Tunnel Feature

Must be installed on a Web server running on a UNIX or Windows system.

SAS Inventory Optimization Software

Base SAS is a prerequisite for the installation of SAS Inventory Optimization.

Product included in SAS Inventory Optimization Server software: SAS Inventory Optimization.

Unless explicitly licensed, use of SAS Inventory Optimization software is limited to SAS Inventory Optimization Server.

Disk Space Required for SAS Inventory Optimization Server:

SAS Inventory Optimization Server is the combined total space requirements for the SAS software products listed above. Please see the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation installed already, then the amount of disk space required to install SAS Inventory Optimization Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS IT Management Adapter for SAP Software

SAS IT Management Adapter for SAP requires Base SAS software and SAS IT Resource Management Server software to be installed. In addition, it requires SAP R/3 (release 4.5B or higher) to be installed prior to the installation of the Adapter itself.

The following products are included in SAS IT Management Adapter for SAP software. Unless explicitly licensed, use of this software is limited to SAS IT Management Adapter for SAP.

- SAS IT Management Adapter for SAP software
- SAS/ACCESS Interface to R/3 software
- SAS/ACCESS Interface to SAP BW software

Disk Space Required for SAS IT Management Adapter for SAP:

The disk space required for the SAS IT Management Adapter for SAP is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation installed already, then the amount of disk space required to install the SAS IT Management Adapter for SAP should be decreased by the disk space of any of the above products that have been previously installed.*

SAS IT Resource Management Server Software

The following products are included in SAS IT Resource Management Server. Unless explicitly licensed, use of this software is limited to SAS IT Resource Management Server.

- SAS IT Resource Management Server software
- Base SAS software
- SAS/ACCESS to DB2 software
- SAS/ACCESS to ODBC software
- SAS/ACCESS to Oracle software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/INSIGHT software

- SAS Integration Technologies software
- SAS IT Management Solutions Core components MVA Data software
- SAS/MDDB Server software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS IT Resource Management Server:

The disk space required for the SAS IT Resource Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 already installed, then the amount of disk space required to install SAS IT Resource Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

Other Requirements for SAS IT Resource Management Server:

- SAS IT Resource Management requires a screen resolution of at least 800x600. If your display is set to a lower screen resolution, some windows may be truncated to fit the screen. If you experience font display problems, you may want to use the default SAS font. To set the default font type, issue the SAS command `dlgfont` at the command prompt. In the Font window, select the font Sasfont, a style of regular, and font size 10.
- SAS IT Resource Management requires an Xwindows device that supports 256 or more colors.
- Adobe Acrobat Reader 3.x is required for some online documents supplied in printable form.

SAS IT Service Level Management Server Software

SAS IT Resource Management Server is a prerequisite for the installation of SAS IT Service Level Management Server.

The following products are included in SAS IT Service Level Management Server. Unless explicitly licensed, use of this software is limited to SAS IT Service Level Management Server.

- SAS IT Service Level Management software
- SAS/IntrNet software

Disk Space Required for SAS IT Service Level Management Server:

The disk space required for the SAS IT Service Level Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 already installed, then the amount of disk space required to install SAS IT Service Level Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/LAB Software

Products Required:

- Base SAS software
- SAS/FSP software (required for interactive data entry)
- SAS/GRAPH software
- SAS/LAB software

SAS Manufacturing Intelligence Architecture Software

SAS Manufacturing Intelligence Architecture Data Integration Server

The following products are included in SAS Manufacturing Intelligence Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Manufacturing Intelligence Architecture Data Integration Server.

- Base SAS software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Manufacturing Intelligence Architecture Data Integration Server:

The disk space required for SAS Manufacturing Intelligence Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Manufacturing Intelligence Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Manufacturing Intelligence Architecture EBI Server

The following products are included in SAS Manufacturing Intelligence Architecture EBI Server. Unless explicitly licensed, use of this software is limited to SAS Manufacturing Intelligence Architecture EBI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Manufacturing Intelligence Architecture EBI Server

The disk space required for SAS Manufacturing Intelligence Architecture EBI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Manufacturing Intelligence Architecture EBI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Manufacturing Intelligence Architecture Metadata Server

The following products are included in SAS Manufacturing Intelligence Architecture Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Manufacturing Intelligence Architecture Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Manufacturing Intelligence Architecture OLAP Server

The following products are included in SAS Manufacturing Intelligence Architecture OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Manufacturing Intelligence Architecture OLAP Server.

- Base SAS software
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Manufacturing Intelligence Architecture OLAP Server:

The disk space required for SAS Manufacturing Intelligence Architecture OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Manufacturing Intelligence Architecture OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Marketing Automation Software**SAS Marketing Automation Server**

The following products are included in SAS Marketing Automation Server. Unless explicitly licensed, use of this software is limited to SAS Marketing Automation Server.

- Base SAS software
- SAS/ACCESS Interface to PC Files
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Customer Intelligence Processes software
- SAS Enterprise Miner software
- SAS/ETS software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/OLAP Server software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Marketing Automation Server:

SAS Marketing Automation Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Marketing Automation Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Marketing Automation Metadata Server

The following products are included in SAS Marketing Automation Metadata Server.

Unless explicitly licensed, use of this software is limited to SAS Marketing Automation Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required:

The disk space required for the SAS Marketing Automation Metadata Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Marketing Automation Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Marketing Optimization Software

SAS Marketing Optimization Server

The following products are included in SAS Marketing Optimization Server.

Unless explicitly licensed, use of this software is limited to SAS Marketing Optimization Server.

- SAS Marketing Optimization software
- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies
- SAS OLAP Server
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Marketing Optimization Server:

SAS Marketing Optimization Server is the combined total space requirements for the SAS software products listed above.

Note: *If you have ordered Platform Suite for SAS, it should be installed on the same machine as SAS Marketing Optimization Server.*

See the Space Requirements table for more information.

SAS Marketing Optimization Metadata Server

The following products are included in SAS Marketing Optimization Metadata Server.

Unless explicitly licensed, use of this software is limited to SAS Marketing Optimization Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Marketing Optimization Metadata Server:

SAS Marketing Optimization Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Marketing Optimization Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

Marketmax Base and Performance Analysis and Micromarketing Software

The following products are included in Marketmax Base and Performance Analysis and Micromarketing Metadata Server. Unless explicitly licensed, use of this software is limited to Marketmax Base and Performance Analysis and Micromarketing Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required for Marketmax Base and Performance Analysis and Micromarketing Metadata Server:

The disk space required for Marketmax Base and Performance Analysis and Micromarketing Metadata Server is the combined total space requirements for the SAS software products listed above. See the **Space Requirements** table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install Marketmax Base and Performance Analysis and Micromarketing Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Metadata Server Software

Products Required:

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies Software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS OLAP Server Software

The following products are included in SAS OLAP Server software. Unless explicitly licensed, use of this software is limited to SAS OLAP Server.

- SAS OLAP Server software
- SAS/AF software
- SAS/GRAPH software
- SAS Integration Technologies software

Memory:

The memory requirements for SAS OLAP Server software are dependent upon the complexity of the hierarchies generated.

- 512 MB required

Large applications will see performance improvements with more available memory.

SAS OpRisk Monitor Software

The following products are included in SAS OpRisk Metadata Server. Unless explicitly licensed, use of this software is limited to SAS OpRisk Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS OpRisk Metadata Server:

SAS OpRisk Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS OpRisk Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS OpRisk VaR Server

SAS OpRisk VaR Server

The following products are included in SAS OpRisk VaR Server. Unless explicitly licensed, use of this software is limited to SAS OpRisk VaR Server.

- SAS OpRisk VaR Server software
- Base SAS software
- SAS/ACCESS engine of choice (Oracle or DB2)
- SAS/ACCESS to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/IML software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

The disk space required for the SAS OpRisk Metadata Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

SAS OpRisk Metadata Server

The following products are included in SAS OpRisk Metadata Server. Unless explicitly licensed, use of this software is limited to SAS OpRisk Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required:

The disk space required for the SAS OpRisk Metadata Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Portal Server Components

The following products are included in Portal Server Components. Unless explicitly licensed, use of this software is limited to Portal Server Components.

- Base SAS software
- SAS Integration Technologies software

Disk Space Required for SAS Portal Server Components:

The disk space required for Portal Server Components is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install Portal Server Components should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Profitability Management Software

The following products are included in SAS Profitability Management Data Integration and BI Server. Unless explicitly licensed, use of this software is limited to SAS Profitability Management Data Integration and BI Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies software

Disk Space Required for SAS Profitability Management Data Integration and BI Server:

SAS Profitability Management Data Integration and BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Profitability Management Data Integration and BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Real-Time Decision Manager Software

The following products are included in SAS Real-Time Decision Manager Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Real-Time Decision Manager Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required:

The disk space required for the SAS Real-Time Decision Manager Metadata Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Real-Time Decision Manager Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Retail Intelligence Architecture Software

SAS Retail Intelligence Architecture Data Integration Server

The following products are included in SAS Retail Intelligence Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Retail Intelligence Architecture Data Integration Server.

- Base SAS software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Retail Intelligence Architecture Data Integration Server:

The disk space required for SAS Retail Intelligence Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Retail Intelligence Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Retail Intelligence Architecture EBI Server

The following products are included in SAS Retail Intelligence Architecture EBI Server. Unless explicitly licensed, use of this software is limited to SAS Retail Intelligence Architecture EBI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Retail Intelligence Architecture EBI Server

The disk space required for SAS Retail Intelligence Architecture EBI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Retail Intelligence Architecture EBI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Retail Intelligence Architecture Metadata Server

The following products are included in SAS Retail Intelligence Architecture Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Retail Intelligence Architecture Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Retail Intelligence Architecture OLAP Server

The following products are included in SAS Retail Intelligence Architecture OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Retail Intelligence Architecture OLAP Server.

- Base SAS software
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Retail Intelligence Architecture OLAP Server:

The disk space required for SAS Retail Intelligence Architecture OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Retail Intelligence Architecture OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Risk Dimensions Software

SAS Risk Dimensions Analyst Edition

The following products are included in SAS Risk Dimensions Analyst Edition. Unless explicitly licensed, use of this software is limited to SAS Risk Dimensions Analyst Edition.

- Risk Dimensions installation code
- Base SAS software
- SAS/ACCESS to ODBC software

- SAS/ACCESS to PC File Formats software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/STAT software

Disk Space Required for SAS Risk Dimensions Analyst Edition:

SAS Risk Dimensions Analyst Edition is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Risk Dimensions Analyst Edition should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Risk Dimensions Enterprise Server

The following products are included in SAS Risk Dimensions Enterprise Server. Unless explicitly licensed, use of this software is limited to SAS Risk Dimensions Enterprise Server.

- Risk Dimensions installation code
- Base SAS software
- SAS/ACCESS Engine of choice
- a second SAS/ACCESS Engine of choice
- SAS/ACCESS to ODBC software
- SAS/ACCESS to PC File Formats software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS Integration Technologies software
- SAS/IntrNet software
- SAS OLAP Server software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required for SAS Risk Dimensions Enterprise Server:

SAS Risk Dimensions Enterprise Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Risk Dimensions Enterprise Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Risk Dimensions Metadata Server

The following products are included in SAS Risk Dimensions Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Risk Dimensions Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Risk Dimensions Metadata Server:

SAS Risk Dimensions Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Risk Dimensions Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.

SAS/SHARE Software

Products Required

- Base SAS software

TCP/IP Access Method

- Any TCP/IP package that comes with the operating system

SAS Space Optimizer Software

The following products are included in SAS Space Optimizer SAS Server. Unless explicitly licensed, use of this software is limited to SAS Space Optimizer SAS Server.

- Base SAS software
- SAS/GRAPH software
- SAS/OR software

Disk Space Required for SAS Space Optimizer SAS Server:

SAS Space Optimizer SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Space Optimizer SAS Server should be decreased by the disk space of any of the above products that have been previously installed.

SAS Space Planning Software

The following products are included in SAS Space Planning SAS Server. Unless explicitly licensed, use of this software is limited to SAS Space Planning SAS Server.

- Base SAS software
- SAS/GRAPH software

Disk Space Required for SAS Space Planning SAS Server:

SAS Space Planning SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Space Planning SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS StoreCAD Plus Software

SAS StoreCAD Plus software requires SAS Space Planning.

The following products are included in SAS StoreCAD Plus. Unless explicitly licensed, use of this software is limited to SAS StoreCAD Plus.

- SAS StoreCAD Plus software

Disk Space Required for SAS StoreCAD Plus:

SAS StoreCAD Plus is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS StoreCAD Plus should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Telecommunications Intelligence Architecture Software

SAS Telecommunications Intelligence Architecture Data Integration Server

The following products are included in SAS Telecommunications Intelligence Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Telecommunications Intelligence Architecture Data Integration Server.

- Base SAS software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Telecommunications Intelligence Architecture Data Integration Server:

The disk space required for SAS Telecommunications Intelligence Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Telecommunications Intelligence Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Telecommunications Intelligence Architecture EBI Server

The following products are included in SAS Telecommunications Intelligence Architecture EBI Server. Unless explicitly licensed, use of this software is limited to SAS Telecommunications Intelligence Architecture EBI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Telecommunications Intelligence Architecture EBI Server

The disk space required for SAS Telecommunications Intelligence Architecture EBI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Telecommunications Intelligence Architecture EBI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Telecommunications Intelligence Architecture Metadata Server

The following products are included in SAS Telecommunications Intelligence Architecture Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Telecommunications Intelligence Architecture Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software

Disk Space Required for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Telecommunications Intelligence Architecture OLAP Server

The following products are included in SAS Telecommunications Intelligence Architecture OLAP Server. Unless explicitly licensed, use of this software is limited to SAS Telecommunications Intelligence Architecture OLAP Server.

- Base SAS software
- SAS Integration Technologies
- SAS OLAP Server

Disk Space Required for SAS Telecommunications Intelligence Architecture OLAP Server:

The disk space required for SAS Telecommunications Intelligence Architecture OLAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Telecommunications Intelligence Architecture OLAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Value Chain Analytics Software

SAS Value Chain Analytics ETL and BI Server

The following products are included in SAS Value Chain Analytics ETL and BI Server.

Unless explicitly licensed, use of this software is limited to SAS Value Chain Analytics ETL and BI Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS OLAP Server software

Disk Space Required for SAS Value Chain Analytics ETL and BI Server:

SAS Value Chain Analytics ETL and BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Value Chain Analytics ETL and BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Value Chain Analytics Metadata Server

The following products are included in SAS Value Chain Analytics Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Value Chain Analytics Metadata Server.

- Base SAS software
- SAS Metadata Server software

Disk Space Required for SAS Value Chain Analytics Metadata Server:

SAS Value Chain Analytics Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Value Chain Analytics Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Visual Data Discovery Software

SAS Visual Data Discovery Server

The following products are included in SAS Visual Data Discovery Server. Unless explicitly licensed, use of this software is limited to SAS Visual Data Discovery Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/STAT software

Disk Space Required for SAS Visual Data Discovery Server:

The disk space required for the SAS Visual Data Discovery Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 already installed, then the amount of disk space required to install SAS Visual Data Discovery Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Visual Data Discovery Metadata Server

The following products are included in SAS Visual Data Discovery Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Visual Data Discovery Metadata Server.

- Base SAS software

Disk Space Required for SAS Visual Data Discovery Metadata Server:

SAS Visual Data Discovery Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Visual Data Discovery Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/Warehouse Administrator Software

Products Required for Build Mode

- Base SAS software
- SAS/AF software (required only for API usage)

Products Required for Run Mode

- Base SAS software

Other products depending on application (e.g., SAS/ACCESS software for access to DBMS tables, SAS/CONNECT software for access to remote data, or SAS/AF software to access warehouse via method calls)

Printers

- For printing graphics-based objects, a color or gray scale printer is required.
- Certain non-graphic objects may require SAS/GRAPH software to print depending on the object.

SAS Warranty Analysis Software

SAS Warranty Analysis Server

The following products are included in SAS Warranty Analysis Server. Unless explicitly licensed, use of this software is limited to SAS Warranty Analysis Server.

- SAS Warranty Analysis Server software
- Base SAS software
- SAS/ACCESS engine of choice

- SAS/ACCESS engine of choice
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/GRAPH software
- SAS Integration Technologies software
- SAS/QC software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

The disk space required for the SAS Warranty Analysis Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Warranty Analysis Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Warranty Analysis Metadata Server

The following products are included in SAS Warranty Analysis Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Warranty Analysis Metadata Server.

- Base SAS software
- SAS/CONNECT software
- SAS Integration Technologies software
- SAS Metadata Server software

Disk Space Required:

The disk space required for the SAS Warranty Analysis Metadata Server package is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Warranty Analysis Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Web Analytics Software

The following products are included in SAS Web Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Web Analytics Server.

- SAS Web Analytics software
- Base SAS software
- SAS/AF software
- SAS/CONNECT software
- SAS Enterprise Miner software
- SAS/ETS software
- SAS e-Data ETL software
- SAS/FSP software
- SAS/GRAPH software

- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/STAT software

Disk Space Required for SAS Web Analytics Server:

SAS Web Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table for more information.

Note: *If you have SAS 9.1.3 Foundation already installed, then the amount of disk space required to install SAS Web Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

Graphics Hardware and Software Compatibility

Printers

SAS/GRAF software provides device drivers for all Hewlett-Packard printers (and compatibles), and printers that support PostScript, HP-GL, HP PCL, and other printer languages. Here is a partial list of printers that SAS/GRAF software supports:

- CalComp ColorMaster, ColorMaster Plus, PlotMaster
- Canon Bubble Jet, Laser Shot
- Digital printers that support either SIXEL, HP PCL, Tektronix, or PostScript emulation modes
- Epson FX and LQ series printers (and all printers running in Epson emulation mode)
- Hewlett-Packard LaserJet, DeskJet, PaintJet, and DesignJet printers (and compatibles)
- IBM Graphics, Proprinter, and ColorJet printers
- PostScript printers (including color and gray-scale PostScript printers)
- QMS Colorgrafix with CGM interpreter
- QMS 800, 1200, 1500, 2200, and 2400 using QUIC or Tektronix emulation modes
- Talaris 800, 802, 1200, 1500, and 2400 using QUIC or Tektronix emulation modes
- Talaris printers using the EXCL language
- Tektronix Phaser printers (all models)
- Tektronix 4693 printers with Tektronix 4510 rasterizer
- Xerox 2700 and 4045 printers with a GRAPHX cartridge
- Xerox 3700 (with imaging board and at least 1M of memory)
- Xerox 4030 (contact Technical Support), 4213, 4235, and 4700
- Xerox 4700 printer
- Xerox 5775 color copier with an EFI Fiery attachment

SAS/GRAF device drivers may also be available for additional printers not listed above and that do not support PostScript, HP-GL, or HP PCL. For additional information on these drivers, contact SAS Institute Technical Support.

Terminals and Displays

SAS/GRAF software supports graphics display on graphics terminals from DEC, Tektronix, HP, and on X Windows terminals. SAS/GRAF software also supports graphics emulators that emulate any of the above terminals. Note the use of the SAS/GRAF graphics editor requires an X Windows display or X Windows emulation software.

Plotters

SAS/GRAF software provides device drivers for all HP plotters supporting HP-GL or HP-GL/2, and plotters from other manufacturers that support the HP-GL or HP-GL/2 language. SAS/GRAF software also supports Houston Instruments plotters using the DMPL language and ZETA plotters that support the GML language.

Film Recorders

SAS/GRAF software provides device drivers that support the following film recorders:

- Genigraphics Masterpiece Camera System with SCODL interface
- Lasergraphics MPS 2000 film recorder with a Lasergraphics UI-100 or RASCOL rasterizer
- Matrix QCR and PCR cameras with Matrix QVP, MVP, or Lasergraphics rasterizers
- Polaroid Palette CI-3000 and CI-5000
- Presentation Technologies Montage film recorder

Support may be available for other film recorders not listed here. For details, contact SAS Institute Technical Support.

Interfaces to Other Graphics Software

Included with SAS/GRAF software is a series of drivers that can produce Computer Graphics Metafiles (CGM) in binary, character, and clear-text formats. These drivers can be used to transfer SAS/GRAF output to other products that support CGM input, such as Word for Windows, WordPerfect for Windows, Harvard Graphics, and Lotus Freelance, or to devices that can process CGM input.

SAS/GRAF software can also generate encapsulated PostScript vector files, which can be exported to word processing packages such as Microsoft Word, WordPerfect, and several others.

Many other graphics and word processing applications can process files in Hewlett-Packard (HP-GL) format. The HPGL driver can be used to produce files that can be transferred to most applications that can process HP-GL files. In addition, there are drivers for PDF, PBM, PPM, GIF, JPEG, EMF, WMF, PNG, TIFF, EPSI, and PaintBrush image formats. To view a complete list of all SAS/GRAF device drivers, submit the following SAS program:

```
proc gdevice c=sashelp.devices nofs;
  list _all_;
  run; quit;
```

SAS/GRAF software can also export graphics in the following formats:

- BMP - Microsoft Windows Bitmap
- EPS - Encapsulated PostScript
- GIF - Graphics Interchange Format
- PNG - Portable Network Graphics
- PPM - Portable Pixmap
- PS - PostScript Bitmap
- TIF - Tagged Image File Format
- XPM - X11 Pixmap
- JPG - JPEG Files
- XBM - X11 Bitmap

In addition, SAS/GRAFH software can import graphics in the following formats:

- BMP - Microsoft Windows Bitmap
- EPS - Encapsulated PostScript
- GIF - Graphics Interchange Format
- PBM - Portable Bitmap
- PCD - Kodak Photo-CD
- PCX - PC PaintBrush
- PGM - Portable Graymap
- PNG - Portable Network Graphics
- PNM - Portable Anymap
- PPM - Portable Pixmap
- TGA - Targa format
- TIF - Tagged Image File Format
- XBM - X11 Bitmap
- XPM - X11 Pixmap
- XWD - X Window Dump
- JPG - JPEG Files

Viewing HTML Pages Created with the ActiveX and Java Device Drivers

The ActiveX and Java device drivers allow you to create HTML pages from within SAS 9.1.3.

Refer to the "Web Browser" section in this document for a list of browsers with which you can view HTML pages on this operating environment.

To view the Java applets, the Java plug-in must be installed on each client machine. On Windows systems, the user can install the plug-in when prompted if it is not already installed. On other systems, the plug-in can be installed from one of the **Third Party Software Components** CDs. Follow the instructions included with the Java and web browser installation for your system to enable the Java plug-in.



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